



# PAVAN RAVIKANTH KONDAMUDI

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<https://github.com/pkondamudi>

- Java/J2EE software engineer with 10 years of overall experience in Designing, Coding, Testing, Implementing Client-Server, and desktop applications using *Java/J2EE Technologies like **Java, RESTful, SOAP Webservices, Microservices.***
- Ability to design and develop applications using *Object Oriented Programming principles exposure to Design Patterns.*
- Trained on modern application development architectures like **Microservices** and frameworks like **Spring Boot, Spring Cloud (Eureka, Zuul, Ribbon, Hystrix, Feign client, ZipKin, JWT), Kafka, Swagger, Cloud environments like Pivotal Cloud Foundry.**
- Experienced in various web technologies like **HTML5, CSS3, JavaScript, Angular 5, Bootstrap.**
- Over 3 years of experience working on **RAD/ Eclipse IDE/ IntelliJ.**
- Exposure to various **SQL, PL/SQL and NoSQL** databases like **SQLServer, DB2, MySQL, Oracle 10g Mongo DB, Cassandra.**
- Experience fixing security vulnerabilities using **OWSAPI** and tuning performance of web applications along with SQL queries as part of Defensive Programming.
- Working and development experience of multi-threading and **Test-Driven development** using tools like JUnit.
- Ability to research, learn and adopt to new technologies and ability to thrive under fast-paced environments.

## Professional and Internship Experience

Walmart Inc, Bentonville – USA

JAN 19 – PRESENT

Role: Sr. Software Engineer

### Key Contributions:

- As a senior technology member, participated in various architectural, designing, meeting for next generation cloud applications in the supply chain domain.
- Made significant contribution and mentioned a team of 10 building Loading module for Atlas multi-tenant WMS.
- Other responsibilities include application design, development and team guiding for next generation cloud applications.
- Developed declarative testing frameworks for Kotlin and Java.
- Won 2 Above and Beyond Supply Chain contributor awards for 2019 and 2020.
- Designed and developed data migration tools for migrating 10 millions records in 20 minutes.
- Proposed several zero downtime migration techniques for the Atlas WMS suite.
- Designed several messaging contracts for Upstream and Downstream interacting systems.
- Participated in design sessions and was responsible for work breakdown, planning and delivery.

Mphasis, Colorado Springs – USA

OCT 18 – JAN 19

Role: Sr. Software Engineer

### Key Contributions:

- Involved in designing, development cloud-native apps for high visibly 'Geo Political' project.
- Design and develop **Java API** interface for various services that extracts 'Geo Political' data from **Cassandra** and **EhCache**.
- Designing and implementing RESTful microservices using **Spring Cloud, Netflix OSS stack** and securing them using **JWT token backed authentication**.
- Setup and develop **Kafka messaging** interface for shipping large extract files with 'Geo Political' data.
- Responsible for project planning, task breakdown, leading and guiding the off-shore team.
- Everyday problem solving and responsible for interacting with the clients and product owners to finalize the designing approaches

Miracle Software Systems, Novi Michigan - USA

AUG 18 – OCT 18

Role: Programmer Analyst

### Key Contributions:

- Developed full-stack applications for logistics and supply-chain industry.
- Worked on developing proof-of concepts for cloud environment using Springboot, Spring Cloud and Kafka messaging.

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#### Northern Illinois University, DeKalb IL – USA

JAN 17 – MAY 18

##### Role: Research Assistant

##### Key Contributions:

- Published 2 research papers in *Association for Computing Machinery* International conferences and 1 under review for IEEE and ACM joint conference (Please refer 'Publications' section below).
- Built 25+ Classification, Regression Machine Learning and Statistical Models using Sci-Kit Learn.  
✓ <https://github.com/pkondamudi/IProjects/tree/master/ML%20Projects>
- Developed 2 scalable and automated web scrapping tools for collecting large dataset from websites like Yelp, Google Scholar using Selenium and a Core Java client using Foursquare API.  
✓ <https://github.com/pkondamudi/IProjects/tree/master/Scrappers>
- Developed an internal website using SpringBoot, AngularJS, Spring MVC, NoSQL DBs: Cassandra, MongoDB.

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#### Argonne National Laboratory, Lemont IL – USA

MAY 17 – AUG 17

##### Role: Research Aide (Internship)

##### Key Contributions:

- Developed 10+ Spack (A flexible package manager) packaging scripts for Proxy-Scientific applications.
- Contributed 600+ lines of open source code to Spack repository.
- Top 49<sup>th</sup> source code contributor for Spack during the Internship period.
- Merged 10+ applications into Spack repository and 3 applications into LLVM compiler test-suite.
- Worked on editing and modifying build scripts like MAKE, CMAKE for Proxy-Scientific applications. Implemented 2 Quantum Noise Models on Atos QLM using AQASM, ProjectQ (An Open Source Quantum Simulator) and analyzed their effects on the performance of quantum algorithms using high performance computing resources (Super Computers).
- Used GitHub for hosting and version controlling the source code.

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#### Broadridge Financial Solutions India Pvt. Ltd. – India

JAN 14 - AUG 16

##### Role: Member Technical

##### Key Contributions:

- Part of ~5 full life cycle, back end and test-driven development projects (300+ hours) which include new client onboarding, batch monitoring applications for the Marketing Communications team technologies include Core Java, J2EE, Spring and Adobe Cold Fusion 5/8/11 technologies.
- Migrated 150+ struts actions in 400+ hours migration project from struts 1 to struts 2.x as an only resource.
- Migrated 20+ ColdFusion pages and ~30 Fusebox actions from Cold Fusion5 to Cold Fusion11.
- Demonstrated Leadership to initiate, designed, and successfully completed ~5 vital production support and administrative automation project components.
- Fixed 10+ Security Vulnerabilities like CSRF, Cross Site Scripting, SQL Injection as part of enterprise application security projects in web applications using OWSAPI framework.
- Developed SOAP and REST webservice for updating batch job statues.
- Re-designed client onboarding portal using CSS3, HTML5, Bootstrap3, jQuery, AJAX.
- Enhanced stored procedures for Microsoft SQLServer 2012 DBMS.
- Experience working on IBM WebSphere 7/8 and Tomcat 7/8 servers.
- Experience working with IDEs Eclipse, IntelliJ, IBM RAD 7/8.
- Experience working with Git, SVN, Perforce, Microsoft Visual Source version control systems.
- Good Knowledge on SLDC and Agile Development.

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#### Skill Matrix

##### Java/J2EE, Other APIs:

Pivotal Cloud Foundry, Netflix OSS stack, Java, J2EE, Spring Cloud, JSP, Spring MVC Spring Boot, JDBC, Servlets, JSTL, LOG4J, JMS, JNDI, Hibernate

**Databases (SQL/NOSQL):** MS SQLServer, Oracle, Sybase, DB2, Apache Cassandra, MongoDB, Neo4J, MS Access

**Web Services:** REST (JAX-RS) / SOAP (JAX-WS), ActiveMQ

**Front End/GUI:** HTML5, CSS3, JavaScript, AJAX, Swings, jQuery, Angular 5, Bootstrap3

**IDE's/Editors:** Eclipse, IntelliJ, NetBeans 7.0, RAD 7/8, SQL Developer, Sublime.

**Tools/Utilities:** IBM WebSphere 7/8, Tomcat 7/8, Virtual-Box, Junit, XAMPP, Selenium, SVN, GitHub.

### Independent Projects

- **{Marrker}**: A social networking website where users can share fun with friends. {Marrker} allows users to create Fun spots where other users can follow those Fun spots and share content like videos, GIFs and posts with followers of Fun spots. **\*(Technologies: J2EE, Spring MVC, MySQL, Boot(plus/strap) 3, CSS, HTML, JDBC, JavaScript, Eclipse, Tomcat 7)**  
 ✓ [https://github.com/pkondamudi/Projects/tree/master/Projects/Marrker\\_v1.0](https://github.com/pkondamudi/Projects/tree/master/Projects/Marrker_v1.0)
- **hnotch**: A website site for all kinds of WWW's content like News, Videos, Blogs. hnotch allows user to upload app to the website and other users of the website can add/remove these apps to/from their profile. **\*(Technologies: J2EE, Spring MVC, Cassandra, Boot(plus/strap) 3, CSS, HTML, JavaScript)**  
 ✓ <https://github.com/pkondamudi/Projects/tree/master/Projects/hnotch>

### Publications

1. **Pavan Ravikanth Kondamudi, Bradley Protano, and Hamed Alhoori, "Pokémon Go: Impact on Yelp Restaurant Reviews" in Proceedings of the 2017 ACM conference on WebSci'17** <https://arxiv.org/abs/1706.02192>
2. **Pavan Ravikanth Kondamudi, Murtuza Shahzad, Christian Bailey, and Hamed Alhoori, "Predicting Scholarly Impact using Altmetrics" in 2018 ACM conference on ICCDA'18.**
3. **Pavan Ravikanth Kondamudi, Haiming Zhou, and Hamed Alhoori, "Predicting Scholarly Impact using Altmetrics". (Under Review)**

### Education

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| <b>Master's in science</b> in Computer Science<br>Northern Illinois University, DeKalb, IL. | GPA - 3.7/4, Graduated - May 2018  |
| <b>Bachelor of Technology</b> in Information Technology                                     | Graduated - May 2013, JNTUK, India |

### References

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| <b>Dr. Hal Finkel</b><br>Lead, Compiler Technology and Programming Languages<br>Argonne National Laboratory<br>630-252-0023<br><a href="mailto:hfinkel@anl.gov">hfinkel@anl.gov</a> | <b>Dr. Hamed Alhoori</b><br>Assistant Professor<br>Director of DATA lab<br>Department of Computer Science<br>Northern Illinois University<br><a href="mailto:alhoori@niu.edu">alhoori@niu.edu</a> |
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